SONY VAIO

VGN-SZ650N/C

VAIO® SZ Series Notebook PC

WINDOWS READYDRIVE™ HYBRID HARD DISK DRIVE

The VAIO® SZ Premium Notebook features an innovative Windows ReadyDrive™ hybrid hard drive, an emerging notebook technology that shortens boot-up times, significantly increases battery life and enhances overall performance speeds. Hybrid hard drive technology blends traditional hard disk technology with flash memory, utilizing the quicker read/write ability of flash memory to manage and process the majority of hard disk related tasks. This allows the hard disk to sit idle until needed, simultaneously extending battery life while enhancing performance. The ReadyDrive™ hybrid hard drive will keep you up and running longer, enabling you to do more with your VAIO® SZ Premium Notebook.

HYBRID GRAPHICS SYSTEM

Exclusive to VAIO® PCs, the revolutionary Hybrid Graphics System lets you set your graphics performance. A simple hardware switch enables you to toggle between an internal Mobile Intel® Graphics Media Accelerator X3100 for optimal power consumption with excellent performance and an external NVIDIA® GeForce® 8400M GS GPU for even more robust performance.

HIGHLY-MOBILE DESIGN

An inspiring fusion of mobility, power and style, the VAIO® SZ Notebook delivers intelligent mobile design while placing a priority on usability and performance. This slim, lightweight PC measures a mere 1" thin[17], with a superb 13.3" widescreen display[11] with XBRITE™ LCD technology, long battery life[7] and a generous, comfortable keyboard. And with its durable carbon fiber casing, the VAIO SZ Notebook is the portrait of sleek, contemporary style.

VISUAL COMMUNICATION

Stay connected to colleagues, friends and family wherever you find yourself. The VAIO® SZ Notebook features an integrated camera with zoom utility and microphone enabling real-time video conferencing whether you're in the office, at home or on the go.

MOBILE MULTIMEDIA ENTERTAINMENT

The VAIO® SZ Notebook is a mobile multimedia entertainment dream-come-true. Watch movies with stunning clarity, listen to your favorite music, deliver dynamic presentations and create and manage your multimedia files with ease. Enjoy the incredibly rich and full sound that Sony's original Sound Reality™ technology delivers. The VAIO SZ Notebook will fuel your creativity and entertainment aspirations.

A premium mix of mobility, power and style, the ultra-sleek VAIO® SZ Premium Notebook features a razor-thin 13.3" widescreen display[17], long battery life[7], Intel® Core™ 2 Duo processor, a revolutionary hybrid hard drive and a cutting-edge carbon-fiber casing. Work faster, play longer and get more from every moment with the VAIO SZ Premium Notebook.

Windows Vista Business

intel Centrino Duo Core 2 Duo inside

dlna CERTIFIED

Bluetooth

G-SENSOR

like.no.other™

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VAIO® SZ Series Notebook PC

Specifications

General

Computer Type: Notebook

Type of Use: Ultra Portable

Action Buttons: S1, S2 (programmable), Wireless On/Off, stamina/speed hybrid graphics switch

Security: Trusted Platform Module (TPM), TCG Ver.1.2 compliant Biometric Fingerprint Sensor

Hardware

Pointing Device: Electro-Static touch pad

Keyboard: QWERTY (86 keys with 3mm stroke and 19.05mm pitch)

Camera: Built-in Camera and Microphone

Processor

Type: Intel® Core™ 2 Duo Processor T7500

Speed: 2.2GHz[1]

Front Side Bus Speed: 800MHz

L2 Cache: 4MB

Technology: Intel® Centrino® Duo Processor Technology

Memory

Type: DDR2

Installed: 2GB (1GBx2) PC2-5300

Maximum: 4GB[15]

Speed: 667MHz

Hybrid Hard Disk Drive

Capacity: 160GB[2]

Technology: H-HDD with Windows ReadyDrive™ for Windows Vista®

On Board RAM: 256MB

Speed: 5400rpm

Interface: Serial ATA

Impact Protection: G-Sensor™ Shock Protection - Hard Disk Drive Protection

Optical Drive #1

DVD+R DL Write: 4x max.

DVD+R Write: 8x max.

DVD+RW Write: 8x max.

DVD-R Write: 8x max.

DVD-RW Write: 6x max.

CD-R Write: 24x max.

CD-RW Write: 16x max.

DVD±RW: Yes[4] (DVD±R DL/DVD±RW/DVD-RAM)

CD Read: 24x max.

DVD Read: 8x max.

DVD-RAM Write: 5x max.

DVD-R DL Write: 4x max.

DVD-RAM Read: 5x max.

Expansion Slots

Multimedia Card Reader: Memory Stick DUO™ with MagicGate® functionality
ExpressCard™ /34 Slot: 5-in-1 Memory Card Adaptor (VGP-MCA20A) supporting Memory Stick®, Memory Stick PRO™, Secure Digital, xD-Picture Card, and MultiMediaCard (MMC)

PCMCIA (Type II/Type I card slot with CardBus support)

Audio

Sound System: Sony® Sound Reality™ - Audio Enhancer

Display

Screen or Display Technology: WXGA razor thin LCD panel

Screen Size: 13.3"[11]

Resolution: 1280x800

XBRITE™ LCD Technology: Yes

White LED back light for better quality and clarity

Graphics

Processor: NVIDIA® GeForce® 8400M GS and Mobile Intel® Graphics Media Accelerator X3100

Video RAM: 831MB Total Available Graphics Memory[13] (NVIDIA® GeForce® 8400 GS) and 358MB Total Available Graphics[13] (Mobile Intel® Graphics Media Accelerator X3100)

Technology: Hybrid Graphics System

Chipset: Mobile Intel® GM965 Express Chipset

Interface: VGA out w/ Smart Display Sensor

Inputs and Outputs

Ethernet Port: 1

Headphone Jack: 1

i.LINK® Interface: 1 (4-pin IEEE 1394) interface[6]

Memory Stick® Media Slot: 1

Modem Jack: 1

Microphone Input: 1

Port Replicator Connector(s): 1 (Bottom)

USB Port(s): 2 (2.0 compliant)

VGA Output(s): 1

DC-In: 1

Express Card™ Slot: 1

Networking/Modem

Ethernet Protocol: Fast Ethernet (RJ-45)

Ethernet Speed: 10Base-T/100Base-TX/1000Base-T

Modem Type: Integrated V.92/V.90 Modem (RJ-11)

Wireless LAN: Intel® PRO/Wireless 4965AGN Network Connection (802.11a/b/g/n)[3]

Bluetooth® Technology: Integrated Bluetooth® Technology[5]

Power

Battery Type: Standard Capacity Lithium-ion Battery

Estimated Battery Life: 3 to 6 hours[7] (Standard Battery)

Power Requirements: 105W+10%

Software

Operating System: Windows Vista™ Business

Internet Services: AOL® 90-Day Risk Free Trial - For new users only

Supplied Software: Microsoft® Works 8.5

60-Day Trial version of Microsoft® Office 2007[10]

Sony® Original Software: Click to DVD® - DVD Creation

* Please access VAIO® Help and Support from your PC for a complete list of software applications and trials.

Security and Anti-Virus Software: Norton® Internet Security™ 2007 60-Day Trial with spyware protection

Service and Warranty Information

Limited Warranty: 1 Year Limited Warranty[8]

Telephone Support: 1 year (toll-free technical telephone assistance, available 24/7)[9]

Online and Email Support: Support available from http://www.esupport.sony.com/EN/VAIO

Dimensions

Weight: 3.95 lbs[16]

Measurements: 12.5"(W) x 1.0"-1.5"(H) x 9.3"(D)

Supplied Accessories

Standard Lithium-ion battery (VGN-BPS10)

AC adapter (VGP-AC19V25)

Memory Card Adapter (VGP-MCA20)[14]

Power Cord

Optional Accessories

Port Replicator (VGP-PRSZ1)

Additional Standard Capacity Battery (VGN-BPS9A/B)

Large Capacity Battery (VGP-BPL9)

Stick AC Adapter (VGP-AC19V25)

Battery Charger (VGP-BC1)

Bluetooth® Wireless Mouse (VGP-BMS30)

Privacy Filter (VGP-FL9)

Bluetooth Laser Mouse (VGP-BMS33/B)

Neoprene Notebook & AC Adapter (VGP-AMC1)

Protection Case with VAIO Smart Protection (VGP-CKSZ1)

Slim Carrying Case (VGP-CCB3)

USB Portable Speaker (VGP-USP1)

100GB Portable Hard Drive with Wireless Keys (VGP-UHDM10/B)

Color: carbon fiber casing

UPC Code: 027242716551

1. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.
2. GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.
3. Requires a compatible 802.11n access point. Some functionality may require Internet services, which may require a fee.
4. DVD Media/Formats are not universally compatible.
5. Interoperability among Bluetooth® devices varies.
6. i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.
7. Actual battery life may vary based on product settings, usage patterns, battery and environmental conditions.
8. See actual limited warranty for details. For a copy of Sony's warranty, please visit

   www.sony.com/pcsupport, call toll-free 888-476-6972 (888-4SONYPC), or write to Sony Electronics, 12451 Gateway Boulevard, Fort Myers, FL 33913.
9. For certain third party software applications, Sony provides first level Phone Support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the applicable software vendor.
10. The Microsoft Office 2007 60-Day Trial software is intended for evaluation purposes only. This trial software is installed on your system and you must activate the software before you can use it. Product activation procedures will be detailed during initial launch of the software; activation requires Internet access. This software has an expiration date of 60 days from date of first use, at which time the software will operate under reduced-functionality mode, limiting end-use options and operations.
11. Viewable area measured diagonally.
12. Broadband Internet service required along with third-party services which may require a subscription fee or other service fee.
13. Total Available Graphics Memory refers to the new Windows Vista classification of graphics memory, which is the total of Dedicated Video Memory, System Video Memory and Shared System Memory. Shared System Memory vaires depending on the operating condition and system memory size.
14. Does not support Memory Stick® media and Memory Stick PRO™ media using the MagicGate® function or high-speed data transfer. Supports memory cards with capacitities up to 8GB. Does not support 5.0V SmartMedia media or the ID function of SmartMedia media with IDs. Does not support the SD Memory Card media copyright protection function. This adapter has been tested with only Sony® branded Memory Stick PRO™ media. Sony® branded Memory Stick PRO™ media is recommended for use with this adapter.
15. A portion of the system memory over 3GB may not be available to the operating system.
16. Non-metric weights and measures are approximate
17. Measured at the narrowest point

Computer Interface: The computer industry lacks standards, and therefore, there are a multitude of varying software packages and add-on hardware options. This personal computer is not manufactured to operate any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and/or non-Sony add-on hardware options except those mentioned in this document. Sony hereby disclaims any representations or warranty that this product is compatible with any combination of products you may choose to connect. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony Notebook Computer are subject to change without notice. Simulated graphic shown on display. Pre-installed software may not be identical to retail versions or have all documentation. This product meets the standards of the International Energy Star Program for energy efficiency. Features and specifications are subject to change without notice. Non-metric weights and measurements are approximate. Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (www.eiae.org).

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